

INFORMATION DISCLOSURE CITATION
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Application Number

09/945131

Applicant(s)

SIROIS, Martin G. et al.

Filing Date

August 31, 2001

Group Art Unit

1635

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PP		5,593,974	01/14/97	Rosenberg et al.			01/06/95

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
PP		93/08845	05/13/93	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PP		Abe, J. et al. (1994). Suppression of neointimal smooth muscle cell accumulation in vivo by antisense CDC2 and CDK2 oligonucleotides in rat carotidartery. Biochemical and Biophysical Research Communications, Vol. 198 No. 1, 16-24.
PP		Agrawal, S. et al. (1988). Oligodeoxynucleotide phosphoramidates and phosphorotioates as inhibitors of human immunodeficiency virus. Proc. Natl. Acad. Sci. USA., Vol. 85, 7079-7083.

EXAMINER

DATE CONSIDERED

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Agrawal, S. et al. (1989). Inhibition of human immunodeficiency virus in early infected and chronically infected cells by antisense oligodeoxynucleotides and their phosphorothioate analogues. Proc. Natl. Acad. Sci. USA, Vol. 86, pp 7790-7794.

Agrawal, S. et al. (1990). Site-specific excision from RNA by RNase H and mixed-phosphate-backbone oligodeoxynucleotides. Proc. Natl. Acad. Sci. USA, Vol. 87, 1401-1405.

Agrawal, S. and John Goodchild. (1987). Oligodeoxynucleoside methylphosphonates: synthesis and enzymic degradation. Tetrahedron Letters, Vol. 28, No. 31, 3539-3542.

Assoian, R.K. et al. (1984). Cellular transformation by coordinated action of three peptide growth factors from human platelets. Nature, Vol. 309, 804-806.

Bannwarth, W. (1988). 166. Solid-Phase Synthesis of Oligodeoxynucleotides containing phosphoramidate internucleotide linkages and their specific chemical cleavage. Helvetica Chimica Acta, Vol. 71, 1517-1527.

Baumgartner, H.R. (1972). Platelet interaction with vascular structures. Thromb Diath. Haemorrh. Suppl., Vol. 51, 161-176.

Bennett, M.R. et al. (1994). Inhibition of vascular smooth muscle cell proliferation in vitro and in vivo by c-myc antisense oligodeoxynucleotides. J. Clin. Invest., Vol. 93, 820-828.

Biro, S. et al. (1993). Inhibitory effects of antisense oligodeoxynucleotides targeting c-myc mRNA on smooth muscle cell proliferation and migration. Proc. Natl. Acad. Sci. USA, Vol. 90, 654-658.

Burgess, T.L. et al. (1995). The antiproliferative activity of c-myc and c-myc antisense oligonucleotides in smooth muscle cells is caused by a nonantisense mechanism. Proc. Natl. Acad. Sci. USA, Vol. 92, 4051-4055.

Clowes, A.W. and S.M. Schwartz (1985). Significance of Quiescent Smooth Muscle Migration in the Injured Rat Carotid Artery. Circulation Research, Vol. 56, No. 1, 139-145.

Clowes, A.W. et al. (1986). Kinetics of cellular proliferation after arterial injury. III. Endothelial and smooth muscle growth in chronically denuded vessels. Laboratory Investigation, Vol. 54, No. 3, 295-303.

Cohen, G. et al. (1990) Microbial isopenicillin N synthase genes: structure, function, diversity and evolution. Trends in Biotechnology, Vol. 8, 105-111.

EXAMINER

DATE CONSIDERED

Lena Hill

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Crooke, R.M. (1991) In vitro toxicology and pharmacokinetics of antisense oligonucleotides. Anti-Cancer Design, Vol. 6, 609-646.

Cosstick, R. and J.S. Vyle (1989). Solid phase synthesis of oligonucleotides containing 3'-thiothymidine. Tetrahedron Letters, Vol. 30, 4693-4696.

Daaka, Y. and E Wickstrom (1990) Target dependence of antisense oligodeoxynucleotide inhibition of c-Ha-ras p21 expression and focus formation in T24-transformed NIH3T3 cells. Oncogene Research, Vol. 5, 267-275.

Ebbecke, M. et al. (1992). Antiproliferative effects of a c-myc antisense oligonucleotide on human arterial smooth muscle cells. Basic Res. Cardiol., Vol. 87, 585-591.

Edelman, E.R. et al. (1995). c-myc in vasculoproliferative disease. Circulation Research, Vol. 76, No. 2, 176-182.

Edelman, E.R. (1990). Effect of controlled adventitial heparin delivery on smooth muscle cell proliferation following endothelial injury. Proc. Natl. Acad. Sci. USA, Vol. 87, 3773-3777.

Ferns, G.A.A. et al. (1991). Inhibition of neointimal smooth muscle accumulation after angioplasty by a antibody of PDGF. Science, Vol. 253, 1129-1132.

Anfossi, G. et al. (1989). An oligomer complementary to c-myc-encoded mRNA inhibits proliferation of human myeloid leukemia cell lines. Proc. Natl. Acad. Sci. USA, Vol. 86, 3379-3383.

Goodchild, J. et al. (1988). Inhibition of rabbit beta-globin synthesis by complementary oligonucleotides: identification of mRNA sites sensitive to inhibition. Archives of Biochemistry and Biophysics, Vol. 263, No. 2, 401-409.

Guvakova, M.A. et al. (1995) Phosphorothioate oligodeoxynucleotides bind to basic fibroblast growth factor, inhibit its binding to cell surface receptors, and remove it from low affinity binding sites on extracellular matrix. The Journal of Biological Chemistry, Vol. 270, No. 6, 2620-2627.

Heldin, C.-H. (1977). Partial purification and characterization of platelet factors stimulating the multiplication of normal human glial cells. Experimental Cell Research, Vol. 109, 429-437.

Holt, J.T. et al. (1988). An oligomer complementary to c-myc mRNA inhibits proliferation of HL-60 promyelocytic cells and induces differentiation. Molecular and Cellular Biology, Vol. 8, No. 2, 963-973.

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Hwang, D.L. (1992). Effects of platelet-contained growth factors (PDGF, EFG, IGF-I, and TGF-beta) on DNA synthesis in porcine aortic smooth muscle cells in culture. Experimental Cell Research, Vol. 200, 358-360.

Jager, A et al. (1988). Oligonucleotide N-alkylphosphoramidates: Synthesis and binding to polynucleotides. Biochemistry, Vol. 27, 7237-7246.

Jaroszewski, J.W. (1990). Concerning antisense inhibition of the multiple drug resistance gene. Cancer Communications, Vol. 2, No. 8, 287-294.

Jawien, A. et al. (1992). Platelet-derived growth factor promotes smooth muscle migration and intimal thickening in a rat model of balloon angioplasty. J. Clin. Invest., Vol. 89, 507-511.

Koyama, N. et al. (1994). Different functions of the platelet-derived growth factor-alpha and -beta receptors for the migration and proliferation of cultured baboon smooth muscle cells. Circulation Research, Vol. 75, No. 4, 682-691.

Kozak, M. (1986). Influences of mRNA secondary structure on initiation by eukaryotic ribosomes. Proc. Natl. Acad. Sci. USA, Vol. 83, 2850-2854.

Langer, R. et al. (1985). Controlled Release and magnetically modulated release systems for macromolecules. Methods in Enzymology, Vol. 112, 399-423.

Lau, K-W and U. Sigwart. Restenosis - an accelerated arteriopathy: pathophysiology, preventive strategies and research horizons. In Molecular interventions and local drug delivery. Edelman RE, Levy RJ [editors]. Saunders WB Company, Cambridge UK. 1995; 1-28.

Leiter, J.M.E. et al. (1990) Inhibition of influenza virus replication by phosphorothioate oligodeoxynucleotides. Proc. Natl. Acad. Sci. USA, Vol. 87, 3430-3434.

Liebhaber, S.A. et al. (1991) Intramolecular duplexes in eucaryotic mRNA suppress translation in a position-dependent manner. J. Cell. Biochem., 15D: CD007 (Abstract).

Lindner, V. and A. Reidy (1991) Proliferation of smooth muscle cells after vascular injury is inhibited by an antibody against fibroblast growth factor. Proc. Natl. Acad. Sci. USA, Vol. 88, 3739-3743.

Loke, S.L. et al. (1989). Characterization of oligonucleotide transport into living cells. Proc. Natl. Acad. Sci. USA, Vol. 86, 3474-3478.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Majesky, M.W. et al. (1990). PDGF ligand and receptor gene expression during repair of arterial injury. The Journal of Cell Biology, Vol. 111, 2149-2158.

Morishita, R. et al. (1993). Single intraluminal delivery of antisense cdc2 kinase and proliferating-cell nuclear antigen oligonucleotides results in chronic inhibition of neointimal hyperplasia. Proc. Natl. Acad. Sci. USA, Vol. 90, 8474-8478.

Morishita, R. et al. (1994) Intimal hyperplasia after vascular injury is inhibited by antisense cdk 2 kinase oligonucleotides. J. Clin. Invest., Vol. 93, 1458-1464.

Murray, J. B. et al. (1983). A micro sustained release system for epidermal growth factor. In vitro, Vol. 19, 743-748.

Nabel, E.G. et al. (1993). Recombinant platelet-derived growth factor B gene expression in porcine arteries induces intimal hyperplasia in vivo. J. Clin. Invest., Vol. 91, 1822-1829.

Nielsen, J. et al. (1988). Synthesis and characterization of dinucleoside phosphorodithioates. Tetrahedron Letters, Vol. 29, No 24, 2911-2914.

Olson, N.E. et al. (1992). Intimal smooth muscle cell proliferation after balloon catheter injury. American Journal of Pathology, Vol. 140, No. 5 1017-1023.

Paules, R. S. et al. (1989). Mouse Mos protooncogene product is present and functions during oogenesis. Proc. Natl. Acad. Sci. USA, Vol. 86, 5395-5399.

Raines, E.W. et al. Platelet-derived growth factor. In Peptide growth factors and their receptors. I. M.B. Sporn and A.B. Robert, editors. Springer-Verlag, New York, 1991; 173-262.

Rhine, W.D et al. (1980) A new approach to achieve zero-order release kinetics from diffusion-controlled polymer matrix systems. In Controlled Release of Bioactive Materials. R. Baker, editor. Academic Press, New York. 1980; 177-187.

Ross, R. (1971) The smooth muscle cell. The Journal of Cell Biology, Vol. 50, 172-186.

Sarin, P.S. et al. (1988). Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates. Proc. Natl. Acad. Sci. USA, Vol. 85, 7448-7451.

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Schwartz, S.M. et al. (1995). The Intima coil for atherosclerosis and restenosis. Circulation Research, Vol. 77, No. 3, 445-465.

Schwartz, S. M. et al. (1986) Replication of smooth muscle cells in vascular disease. Circulation Research, Vol. 58, No. 4, 427-444.

Shaw, J.-P. et al. (1991) Modified deoxyoligonucleotides stable to exonuclease degradation in serum. Nucleic Acids Research, Vol. 19, No. 4, 747-750.

Shi, Y. et al. (1993) Down regulation of c-myc expression by antisense oligonucleotides inhibits proliferation of human smooth muscle cells. Circulation, Vol. 88, 1190-1195.

Shi, Y. et al. (1994). Transcatheter delivery of c-myc antisense oligomers reduces neointimal formation in a porcine model of coronary artery balloon injury. Circulation, Vol. 90, No. 2, 944-951.

Simons, M. et al. (1994). Antisense proliferating cell nuclear antigen oligonucleotides inhibit intimal hyperplasia in a rat carotid artery injury model. J. Clin. Invest., Vol. 93, 2351-2356.

Simons, M. and R.D. Rosenberg (1992) Antisense nonmuscle myosin heavy chain and c-myc oligonucleotides suppress smooth muscle cell proliferation in vitro. Circulation Research, Vol. 70, No. 4, 835-843.

Simons, M. et al. (1992) Antisense c-myc oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo. Nature, Vol. 359, 67-70.

Speir, E and S.E. Epstein (1992). Inhibition of smooth muscle cell proliferation by an antisense oligodeoxynucleotide targeting the messenger RNA encoding proliferating cell nuclear antigen. Circulation, Vol. 86, No. 2 538-547.

Stein, C.A. (1995) Does antisense exist? Nature Medicine, Vol. 1, No. 11, 1119-1121.

Uznanski, B. et al. (1987). Deoxyribonucleoside 3'-phosphordiamidites as substrates for solid supported synthesis of oligodeoxyribonucleotides and their phosphorothioate and DNA-triester analogues. Tetrahedron Letters, Vol. 28: 3401-3404.

Wagner, R.W. and K. Nishikura (1988) Cell cycle expression of RNA duplex unwindase activity in mammalian cells. Molecular and Cellular Biology, Vol. 8, No. 2, 770-777.

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Wang, A.M. et al. (1985) Molecular cloning of the complementary DNA for human tumor necrosis factor. Science, Vol. 228, 149-154.

Wickstrom, E. et al. (1986) Complementary oligonucleotide probe of vesicular stomatitis virus matrix protein mRNA translation. Byophys. J., Vol. 49, 15-17.

Yakubov, L. A. et al. (1989) Mechanism of oligonucleotide uptake by cells: involvement of specific receptors? Proc. Natl. Acad. Sci. USA, Vol. 86, 6454-6458.

Zamecnik, P.C. et al. (1986) Inhibition of replication and expression of human T-cell lymphotropic virus type III in cultured cells by exogenous synthetic oligonucleotides complementary to viral RNA. Proc. Natl. Acad. Sci. USA, Vol. 83, 4143-4146.

Zamecnik, P.C. and M.L. Stephenson (1978) Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide. Proc. Natl. Acad. Sci. USA, Vol. 75, No. 1, 280-284.

Banai, S. et al. (1998) PDGF-Receptor Tyrosine Kinase Blocker AG1295 Selectively Attenuates Smooth Muscle Cell Growth In Vitro and Reduces Neointimal Formation After Balloon Angioplasty in Swine. Circulation, 97: 1960-1969.

Bilder, G. et al. (1999) Restenosis Following Angioplasty in the Swine Coronary Artery Is Inhibited By an Orally Active PDGF-Receptor Tyrosine Kinase Inhibitor, RPR101511A. Circulation, 99: 3292-3299.

Hart, C.E. et al. (1999) PDGFB Receptor Blockade Inhibits Intimal Hyperplasia in the Baboon. Circulation, 99: 564-569.

Tanizawa, S. et al. (1996) Expression of platelet derived growth factor B chain and B receptor in human coronary arteries after percutaneous transluminal coronary angioplasty: an immunohistochemical study. Heart, 75: 549-556.

EXAMINER

DATE CONSIDERED

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